DSESHTH DSD100

HUMAN xiap

SEQ ID NO:3	aagatgact	tgaaggatct	
SEQ ID NO:4 a	FW T R N B T W	+ S S S	09 -
	gaagaat	gtttaat	
rd	K T C V P A D I N K E	F N	120
	ttaaaaacttttgctaattttccaagtggtagtcctgtttcagcatcaac	actggcacga	
rd	. S	L A L) 20 1 1
	ggtgctttagttg	tcatgcagct	
ď	E G D T V	H A A	240
	gcagttggaagacacaggaaa	cccaaat	
rđ	S Q U	S + N A S	000
	ttgaaaatagtgccacgcagtctac	attot	
rd	CRFINGFYLE	N S G	09

FIG. 1 (PAGE 1 OF 7)

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HUMAN xiap

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tcagtacaaagttgaaaactatctgggaagcagagatcattttgcctta	i Li	gacaggccatctgagacacatgcagactatcttttgagaactgggcaggttgtagatata	THADYLLRTGQVVDI -	ccgaggaaccctgccatgtattgtgaagaagctagattaaagtcc +	PRNPAMYCEEARLKS -	igactatgetcacetaaeeeceaagagagttageaagtgetggaete	DYAHLTPRELASAGL	gtattggtgaccaagtgcagtgcttttgttgtggtggaaaactgaaaat	G D Q V Q C F C C G G K L K N -	gtgatcgtgcctggtcagaacacaggcgacactttcctaattgcttcttt	RAWSEHRRHFPNCFF	FIG. 1 (PAGE 2 OF 7)
tccagaatgg +-	I O N G O Y	gacaggccatctgaga	D R P S E	tcagacaccatataco	SDTIX	tttcagaactggccagactatgctca	F O W P	tactacacaggtatt 	Y Y T G I	tgggaaccttgtgat	W E P C	
a 361 -	rd H	421 -		481 -	ď	541	rd	601	rd	661	๗	

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HUMAN xiap

FIG. 1 (PAGE 3 OF 7)

HUMAN xiap

1140	1	1200	1	1260	1	1320	t	1380	ı	1440	
gagtgtctggtaagaactactgagaaaacaccatcactaacta	ECLVRTTEKTPSLTRIDDT	atcttccaaaatcctatggtacaagaagctatacgaatggggttcagtttcaaggacatt	I F Q N P M V Q E A I R M G F S F K D I	aagaaaataatggaggaaaaattcagatatctgggagcaactataaatcacttgaggtt ++++++	K K I M E E K I Q I S G S N Y K S L E V	ctggttgcagatctagtgaatgctcagaaagacagtatgcaagatgagtcaagtcagact	LVADLVNAQKDSMQDESSQT	tcattacagaaagagattagtactgaagagcagctaaggcgcctgcaagaggagaagctt	з токвізтвеотия говекь	tgcaaaatctgtat	FIG. 1 (PAGE 4
1081		1141		1201		1261		1321			1381
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HUMAN xiap

HUMAN xiap

2160	FIG. 1 (PAGE 6 OF 7)	2101
1		
2100	tgtaaagnnataaacacgnacntgtgcgaaatatntttgtaaagtgatttgccattnttg 11++++++	2041
ı)
2040	gaaagatagagattgtttttagaggttggttgttgtgttttaggattctgtccattttct	1981
ŧ.		136.
1980	atctccccaatcacataatttgttttgtgtgaaaaaggaataaattgttccatgctggtg	, ,
		1861
1920	totgtatataaatgtggagattagagtta	
1		1801
1860	attcatagtatactgatttaatttctaagtgtaagtgaattaatcatctggatttttat	

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HUMAN xiap

	2161	nagatatgttaagtgtaaaatgcaagtggcnnnacactatgtatagtctgagccagatca	2220
ಹ			1
	2221	aagtatgtatgttnttaatatgcatagaacnanagatttggaaagatatacaccaaactg +++++++	2280
Ø			1
•	2281	ttaaatgtggtttctcttcgggggggggggggggtttgggggggg	2340
ಡ			1
	2341	naggggccttttcactttcnacttttttttttttttgttctgttc	2400
ಥ			1
	2401	gtanaccccnaagggttttatggnaactaacatcagtaacctaacc	2460
ď			1
	2461	gtnctcttcctagggagctgtnttgtttcccacccacccttccctt	2520
ಹ			ı
	2521	ctgagtgctgggggcacttn FIG. 1 (PAGE 7 OF 7)	

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09	120	180	CA 24(ı Z	300	ı E+	, 36	1 £
TCCTTGAGATGTATCAGTATAGGATTTAGGATCTCCATGTTGGAACTCTAAATGCATAGA	AATGGAAATAATGGAAATTTTTCATTTTGGCTTTTCAGCCTAGTATTAAAAACTGATAAAAA	GCAAAGCCATGCACAAAACTACCTCCCTAGAGAAAGGCTAGTCCCTTTTCCTTCC	ATTTCATTATGAACATAGTAGAAAACAGCATATTCTTATCAAATTTGATGAAAAGCGC	MNIVENSIFLSNLMKSA	ACACGTTTGAACTGAATACGACTTGTCATGTGAACTGTACCGAATGTCTACGTATTCCA	TFELKYDLSCELYRMSTYS	CITITICCIGCIGGGITCCTGICTCAGAAAGGAGTCTIGCICGIGCIGGTITCIATIACA	C FPAGVPVSERSLARAGFYY FIG. 2 (PAGE 1 OF 8)
SEQ ID NO:5	U	U		SEQ ID NO:6 c		υ		0

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	ĸ		ഗ	A †	E	HH - + +	>	ŗTGA +	Σ	TCAGA	EH	
AA.	×	TCGTTCAGA	ø	TCAGTAA	>	CTCTT	ဟ	CŢJ	H	rtc.	Ø	
7.GG	3	GTT	>	TC7	Ŋ	TGG(O,	IGC 	Ø	TTT.	ŢĿ	
AC	z	Ď.		CTTCT -+	ഗ	CGJ	œ	TTTTCTGCC	ഗ	TAC +	E	
CTGGTGTGAATGACAAGGTCAAATGCTTCTGTTGTGGCCTGATGCTGGATAACTGGAAAA	Ω	CCTACTGAAAAGCATAAAAAGTTGTATCCTAGCTGCAGATTCGTTCAGA	¤		ρι	CACATTCCACACTCATTACTTCCGGGTACAGAAAACAGTGGATATTTCCGTGGCTCTT	ſΞı	ATTCAAACTCTCCATCAAATCCTGTAAACTCCAGAGCAAATCAAGAATTTTCTGCCTTGA	Įτι	CTACCCCTGTCCAATGAATAACGAAAATGCCAGATTACTTAC	L	
3CTG	H	CIGC	U	CTTTTC	[Li	ATAT	> -	AAGAA	Ħ	GAT	LI LI	8
ATC	Σ	rAG(ഗ	TAC	۲	TGGA	ა ე	AAATCAA	ø	CCA	R.	(PAGE 2 OF
CTG	ᆈ	Σ Σ	Ωı	ACAACTTGGAAGCTACCTCTCAGCCTA(ሷ	GAAAACAGT		\$!	Z	ATG	4	7
360	O	TAT	> +	CAC	O	AA!	Z.	AGC	A	AA	Z	Ш
rGT(U	TTG	ᄓ	TCI	ഗ	GAZ	ſΩ	CAG	α.	CGA	យ	20
GTJ	U	YAG	×	ACC +	٤٠	CACTCATTACTTCCGGGTACA	€→	TC(ഗ	ľAA ++	Z	(P)
TTCTGT +		A S	×	SCT	Æ	GGT	ტ	TAAACTC	Z	AA	z	
GCT 	ĹŦ	ATA	 134	AAG	田) (0)	а	GTA	>	ATG	Œ	FIG. 2
ATG	U	AGC	H	1GC		TT(i i	10.1 1 - 1	٠.	CCA	Ф	<u>5</u>
CZ +	×	AS.	×	ACT -+-	H	TAC	_	CAAATCCTG		GT(U	<u>L</u>
GGT	>	TG	回	CA	Z	CAT	ᆸ	CAS	Z	TACCCCTGTC		
AA.	×	TAC	 [+ 	TAT	Z	CTC	S	TCCAT	တ်	ACC	μ	
GAC	Ω	ပ္ပံ	1 4	CGT	>	ACA		TCC	വ	CTO	>-	
AAT -+-	Z	AG	D S	TTCC	ß	CAC	E	CHO	ល	TTC	ഗ	
3TG	5	GAC	i a	AA	z	TTC		*	Z	AAG	်	
GGT	N >	GAGGAGACAGT	1 0	GTCTA	ы	CACAT	Ħ	ATTCAAACTC	ល	TGAGAAGTTC		
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780		840	1	006		960	ı	1020	1	108	1	
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ATA	H	GAACCGA	٥,	AAT	Z	CAGCCC	A	GCAA	A	TGGTG	ŋ	
FAC	» > +	GAA	臼	GAA	ធ	GCA	A	LI)	₽	TGA	Ω	
rAC		7GG	3	ATA 	н	CAT	Ħ	AGCAG	ø	rgcrg	ບ	
T.T.T.	Lu	AATTG	z	TTT +	E.	GACAC	٤٠٠	TGAG	យ	TGC	O	
135C	U U	CAGAGTGGCTTGCCTGTGGTGGAAAATTGAGCAATTGGGAACCGA	S	AGACATTTCCCAAATGCCCATTTATAGAAATC	Ωı	GCAG	ø	TCCT	Д	TTT	ĹĿı	
CAG		rTG2	٦ «،	1GC(U	ATG	Σ	AAT 	z	TGC	O	
ACGAG	ж 4	AAATT	×	AA.	×	SAGCA	S	TCTAGTTAA	Z	CAAATG	×	8
CAC		GAA		700	പ	TG	٦.	CTA(,	GTC	>	
, <u>1</u> 66.	A	GTG	ڻ ر	TTC		ATC		PGTT(>	SATG	Ω	(PAGE 3 OF
ATC	h	CTGTG -+	O	ATT	ĺΞι	CTD	s s	GTC	S	TGATG -+	Д	er) Hil
AGZ	Ω) (1) (1)	O	3AC +	耳	T.T.T	Ŋ	CTAG		GTC		5
AAC	i E	TG	¥	rga(ĸ	CAG	>	CCTC	Ø	ACA 	S	ρA
ည	L Di	CT.	Ţų	ACCTG	Ч	ACA(Ę·	2296	Д	GTA	Z	
GTC	+ S	TTG	·	GAAC?	茁	TCAAGATACACAGTTTCTAA	. >	ACTG -+	3	7GG -+-	ڻ	8
ICT	1	99	K	AGA	ធ	'AAC	œ	rtaa 	Z	ATG 	>	FIG.
l'T'T	1 ! [14	AGT	>	GTC	ഗ	TT	ល	ÎĈ I	ĹĿ	ATT	>	u_
3AC	E	CAG	ĸ	TAT 	Σ	CACT	Ħ	AT	[II	rtt/	>-	
TT	÷ ;	4GA	Ω	TGC +	æ	AGA	Ω	DA.	€	FTT:	ÍΞι	
່ວວ	l pi	, j	r	raa'	z	TCA	L Q D	TAA	×	9993	ග	
CATGGCCATTGACTTTCTGTCGCCAACAGATCTGGCACGAGCAGGCTTTTACTACATAG	3	GACCTGGAGA	Д	AGGATAATGCTATGTCAGAACACCTGAGACATTTTCCCAAATGCCCATTTATAGAAATC	Ω	AGCTTCAAGACACTTCAAGATACACAGTTTCTAATCTGAGCATGCAGACACATGCAGCCC	l u	GCTTTAAAACATTCTTTAACTGGCCCTCTAGTGTTCTAGTTTAATCCTGAGCAGCTTGCAA	(±4	GTGCGGGTTTTTATTATGTGGGTAACAGTGATGATGTCAAATGCTTTTGCTGTGATGTG	Æ	
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	721	10	6	841	i I	0	<i>y</i>	961		1021		
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1140		1200	1	1260	1	1320	,	1380	ı	1440	ı
	œ		>-		[1]	TGA +	Z	4 +	E→	GT +	'n
CCAA	ሲ	AG1	ഗ	TGCAG	4	ATC	Σ	CA(O	rgr 	>
TTT([II4	900 ±	Æ	AAAT 	Z	CATGA	Σ	3	×	CTC	H
rgg	3	GTTCAAGCCAGTT ++	O.	GAA 	ப	ATC	н	GTA	>	'GA'	Ω
AAG	×	GTT(+	>	GATGA	Ω	TGCAAT	Ø	CTC	J	CAAT	Z
3CC7	4	CAA	0	AGGA	G	GAT	Q	AAGCCTGGTAAAACAGA	ທ	GTC	>
GACTCAGGTGTTGGGAATCTGGAGATGATCCATGGGTTCAACATGCCAAGTGGTTTCCAA	H	GGTGTGAGTACTTGATAAGAATTAAAGGACAGGAGTTCATCCGTCAAGTTCAAGCCAGTT	œ	() 1	ф	AGTCATCAATTATCCATTTGGAACCTGGAGAAGACCATTCAGAAGATGCAATCATGATGA +++++++	ជា		œ	AAAATCCTAGCAACTGGAGAGTTATAGACTAGTCAATGATCTTGTGT	ធ
CAA(O	ATC -+-	H	CAGCC	ഗ	TCA	တ	TAGTAG	ഗ	rAG2	œ
GTT.	>	TTC.	[I4	GAC	Ω	CAT	I		ĹŦ	rta:	> +
TGG(3	GAG	ប្រ	CACATCA	ഗ	GAC	Ω	966	ტ	SAAC	Z
TCCA'	a,	SACAG	ø	ACA +	E⊣	GAA	ជា	LATC	Σ	GGAGAGAA	ធ
3AT(Ω	GGA	ڻ ن	TCC	ഗ	GGA	Ŋ	GGAAATGGGCTT	ы	rGG2	Ö
GAT(Ω	AAA	×	CTA	J	CCT	а	GTC	>	AAC:	Ę٠١
3GA(_ დ	ATT.	н	CTG	L)	GAA	ГIJ	GCTGCCGT	æ	CTAGCAAC	Æ
rcr - + + -	S	AGAAT +	oc.	CAG +	ø	TTG + +	ļ	135°	4	CT7	A
SAAS	ម	ATA	н	CTTGAACAGCTG	(1)	CAT	H	AAT	Z	AATC	н
1GG(TTG	,	CTT	ы	'ATC	H	ATT	H	A PAR	×
GTGT1 +	Ω 3	TACT	> +	ACCCTCATCTA	J	ATT	н	ATACTCCTGTG	>	CAGTTCAGAGA	~
AGG.	r:	3AG		CAT	H	TCA	S	נכטו	വ	TCAC	Ø
GACTCAG	r R	GGTGTGAG	(J	CCT	Д	TCA	S	ACT	Ę	AGTI	>
GAC	H	GG	Ü								
1081		1141		1201		1261		1321		1381	
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FIG. 2 (PAGE 4 OF 8)

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1500		1560	1	1620	ı	1680	ı	1740	1	1800	t	
	ப		r.		ш		۲	GCTG +	ជា	AG + -	Ω	
GAGG	ជា	CAACATT	æ	ACA.	O	TGA	Ω	AGC	æ	CAGAAG	田	
ACT	E	\$	O	GAZ	ជា	GAT	н	AGA 	ធា	CAC	۲	
GCA	Æ	TTTT.	[t ₄	AA	z	ACTO	J	3C.P.	O	ATTCCCA	ል	
AGA +	œ	CTT	Ļ	PATT	н	AGA	បា	rct(ц,	TAT 	н	
GAA	ជា	GCA(æ	WATI	н	AAG.	æ	CTC	ഗ	ATA'	>+	
AATGCAGAAGATGAAATAAGGGAAGAGAGAGAGAAAGAGCAACTGAGG	c;	ATGG	X	TGCCGGAATTATTAATGAACAAG	O	TAAACAGAAGACACAGACGTCTTTACAAGCAAGAGAACT	æ	AAA(Z	CATAAAATAT +	×	8
GAG	Ш	AGAA	œ) 1900	æ	ACA.	O	CAGAA	pc,	CAT.	н	Щ
GAG	ជា	SAAT	z	NAC.	E	rtt?	ᆸ	ATT	Ŀ	ACAGGA	Ω	5 OF
GAA	臼	AAG	. 🔀	ACT?	L	3TC:	S	IGT	>	ACA	O	Ш С
AAGG -+	- œ	TCCGG	œ	CTZ	H	3AC(E	CACTGT	٤٠	TGTGCA	O	<u>0</u>
ATA	H	ATC	H	TAGTCTAC	S	ACA(O	AGC	A	TCT	>	(PAGE
GAA	臼	TTAA	H	3GA7	Ω	3AC	€	13C	æ	ATT 	[24	
GAT	Д	ATT?	니	CTC	H	SAA(×	ATAT	н	GCATTTATT +	'n	.:
GAA	ы	TTTATTAT	٦	AAT(ы	ACA(O	AAA 	Z	GCA	x	FIG. 2
GCA	. A	'GAT	Ω	1 1 1 1	Д	TAA	×	AGG	ტ	TGA	ы	
AAT	Z	AAA	z	AAT	н	rat	H	AAA 	×	ATA 	>	
CTO	<u> </u>	ATC?	ഗ	rGT?	>	rgr'	>	AGTA	>	GTT.	ឯ	
TTA		GAZ	印	rrg1	U	rGAC	Ω	TTT/	H	TGT	>	
TAGACTTACTC	Q	AAAAAGAATCAAATGATTTATTAATCCGGAAGAATAGAATGGCACTTTTTCAACATT 	×	TGACTTGTGTAATTCCAATCCTGGATAGTCTACTAACTGCCGGAATTATTAATGAACAAG	E	AACATGATGTTATTAAACAGAAGACACAGACGTCTTTACAAGCAAG	Ħ	CGATTTTAGTAAAAGGAAATATTGCAGCCACTGTATTCAGAAACTCTCTGCAAGAAGCTG	н	AAGCTGTGTTATATGAGCATTTATTTGTGCAACAGGACATAAAATATATTTCCCACAGAAG	A	
	1441	1501	 	1561		1621		1681		1741		
	U		υ		υ		O		υ		U	

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1860	ı	1920	t	1980	. 1	2040	ı	2100		7.70
ATGTTTCAGATCTACCAGTGGAAGAACAATTGCGGAGACTACCAGAAGAAGAACATGTA	VSDLPVEEQLRRLPEERTCK	AAGTGTGTATGGACAAAGAAGTGTCCATAGTGTTTATTCCTTGTGGTCATCTAGTAGTAT	V C M D K E V S I V F I P C G H L V V C	GCAAAGATTGTGCTCCTTCTTTAAGAAAGTGTCCTATTTGTAGGAGTACAATCAAGGTA 1921	K D C A P S L R K C P I C R S T I K G T	CAGTTCGTACATTTCTTTCATGAAGAACCAAAACATCGTCTAAACTTTAGAATTAAT	VRTFLS *	TTATTAAATGTATTATAACTTTTATACTTTTATCCTAATTTGGTTTCCTTAAAATTTTATT 2041+++++++	TATTTACAACAACATTGTTTTGTGTAACATTTTATATTTATATGTATCTAAACCATA	FIG. 2 (PAGE 6 OF 8)
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	2161	TGAACATATATTTTTTAGAAACTAAGAGAATGATAGGCTTTTGTTCTTATGAACGAAAAA	2220
υ			1
	2221	GAGGTAGCACTACAAACACACAATATTCAATCCAAATTTCAGCATTATTGAAATTGTAAGTG	2280
บ			1
	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	AAGTAAAACTTAAGATATTTGAGTTAACCTTTAAGAATTTTTAAATATTTTGGCATTGTAC	2340
U	1 0 1		1
	7247	TAATACCGGGAACATGAAGCCAGGTGTGGTGGTATGTACCTGTAGTCCCAGGCTGAGGCA	2400
U	T # C 7		ı
		AGAGAATTACTTGAGCCCCAGGAGTTTGAATCCATCCTGGGCAGCATACTGAGACCCT	0460
	2401	⊦	7
U			1
	7461	TTTAAAAACXAACAGXACCAAAXCCAAACACCAGGGACACATTTCTCTGTCTTTTTGAT	2520
U	1 7 1	FIG. 2 (PAGE 7 OF 8)	t

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2580 --+ 2640 TTTTATAAAGAATTCTGTGAGXAAAAATTTAATAAAGCAACCXAAATTACTCTTAAAAAA CAGTGTCCTATACATCGAAGGTGTGCATATATGTTGAATCACATTTTAGGGACATGGTGT 2521 2581 O

2641

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FIG. 2 (PAGE 8 OF 8)

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SEQ ID NO:7	TTAGGTTACCTGAAAGAGTTACTACAACCCCAAAGAGTTGTGTTCTAAGTAGTATCTTGG	09
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	TAATTCAGAGAGATACTCATCCTACCTGAATATAAACTGAGATAAATCCAGTAAAGAAAG	120
ૃત્		ı
	TGTAGTAAATTCTACATAAGAGTCTATCATTGATTTCTTTTTGTGGTGGAAATCTTAGTT 121	180
rd		1
	CATGTGAAGAAATTTCATGTGAATGTTTTAGCTATCAAACAGTACTGTCACCTACT 181	240
rd	Σ	ı
	CACAAAACTGCCTCCCAAAGACTTTTCCCAGGTCCCTCGTATCAAAACATTAAGAGTATA	300
SEQ ID NO:8 a	H K T A S Q R L F P G P S Y Q N I K S I	ı
, E	ATGGAAGATAGCACGATCTTGTCAGATTGGACAAACAGCAACAAAAAAAA	360
Ø	MEDSTILSDWTNSNKOKMKY	1
	FIG. 3 (PAGE 1 OF 7)	

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181		CTT	TTC	TCCTG	TGA	ACT	CTZ	CAC	SAAT	GTC	TCTAC	ATA	ATTC	CAACT	TTTC	222	+	900	GGTC	GACTTTTCCTGTGAACTCTACAGAATGTCTACATATTCAACTTTCCCCGCCGGGGGTGCCT	420
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421	GIG	CTC	AGAAA(AAG -+-	GAC	FTC:	TTG.	rctrgcrcgrgc	3TG(OTG.	TGGTTT +	rtta 	ATTA	TAC	TGG	TCT	GAA	TGA	CAA(GTCTCAGAAAGGAGTCTTGCTCGTGCTTGTTTTTATATACTGGTGTGAATGACAAGGTC	4.80
	>	Ŋ	凹	民	ഗ	H	A	œ	A	G	[t4	≯	≯	£ -1	ტ	>	Z	Ω	×	>	1
481		ATG	ATGCTTCT	CTC	3TTC	GTG	000	IGA	IGC	TGG.	ATA -+-	ACT	CCTGATGCTGGATAACTGGAAACTAGGAGACAGTCCTA	AAC:	rAGC	AGA	CAG +	TCC	TAT	AAATGCTTCTGTTGTGGCCTGATGCTGGATAACTGGAAACTAGGAGACAGTCCTATTCAA	540
	×	U	[±4	U	O	G	H	Σ	ħ	Ω	Z	3	×	ᄓ	U	Д	ഗ	ជា	н	O)	1
541		GC -	AAGCATAAAC	AC?	, GC	rat.	ATC.	CTA +	3CT	GTA	GCT -+-	TTA	GCTATATCCTAGCTGTAGCTTTATTCAGAATCTGGTTTCAGCT	AGA)	ATC:	7661	TTC	AGC	TAG	AAGCATAAACAGCTATATCCTAGCTGTAGCTTTATTCAGAATCTGGTTTCAGCTAGTCTG	009
	×	. #	×	ø	ᆈ	> +	്വ	S	U	ഗ	Ŀ	H	ø	Z	L	>	ഗ	Ø	S	'n	1
601		ATC	CAC	CTC	TA	AAGA	ATA(CGT(CTC	CAA	TGA -+-	GAA	ACGTCTCCAATGAGAAACAGTTTTGCA	GTT.	rtg(CAC	CATTCATTA	ATT	ATC	GGATCCACCTCTAAGAATACGTCTCCAATGAGAAACAGTTTTGCACATTCATT	960
	. (ഗ	٤٠	ഗ	쏬	Z	₽	ഗ	Д	Σ	ద	Z	ഗ	Įτ'	Æ	I	ഗ	口	ഗ	ф	1
661		CTT	GGA	AACA	\ТА(AGTAG	3CT	TGT +	TCA	GTG	GTT -+-	CTT 	ACT	CCA +	325	rtc(CTCC	CAA	ACCC	ACCTTGGAACATAGTAGCTTGTTCAGTGGTTCTTACTCCAGCCTTCCTCCAAACCCTCTT	720
	⊱ -	H	Œ	I	Ŋ	ഗ	Ü	Ţ	ഗ	Ů	Ŋ	>	<i>v</i> s	ഗ	្ន	Ω	ռ	Z	<u>ρ.</u>	ᆸ	•
								FIG.	ω. Ω	~	<u>d</u>	AG	(PAGE 2 OF 7)	0	Ľ.	~					

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780	ı	840	ı	006	ı	096	1	1020	ı	1080	t	
AGTTGAAGACATCTCTTCATCGAGGACTAACCCCCTACAGTTATGCAATG	Σ	AGTACTGAAGAAGCCAGATTTCTTACCTACCATATGTGGCCATTAACTTTTTGTCACCA	ىم	AAGAGCTGGTTTTTATATATAGGACCTGGAGATAGGGTAGCCTGCTTT	ĹŦĸ	GAAGCTCAGTAACTGGGAACCAAAGGATGATGCTATGTCAGAACACCGG	æ	AGGCATTTTCCCAACTGTCCATTTTTGGAAAATTCTCTAGAAACTCTGAGGTTTAGCATT	н	TCAAATCTGAGCATGCAGACACATGCAGCTCGAATGAGAACATTTATGTACTGGCCATCT	ഗ	
TGC	Ø	GTC	ഗ	CTG.	U	ACA(Ή	TAG	S	300 	വ	
rta:	>-	TTTTT	IJ	AGC(Ø	AGAA	ជា	AGGTT' -+	ĹĿ	CTG 	3	
CAGT	ഗ	TTT	[IL	3GT2	>	GTCA	ഗ	GAG 	ĸ	GTA	>-	
CTA(>	AACT	€	TAG(oc.	GCTAT	Σ	TCT	ឯ	TAT	Σ	
222	Д	ATTA	1	AGA'	Ω	TGC	æ	AAC	H	ATT	[t.	7
TAA(-+-	z	TGTGGCCAT	Ω	AAGAGCTGGTTTTTATTATATAGGACCTGGAGA	Ö	TGAT-	D	AGA -+-	Ш	AGAACATT	۲	3 OF
GAC	e	31G(3	ACC		GGA	Ω	TCT	H	GAG	œ	က
3AG(æ	TAT(Σ	AGG.	Ŋ	AAAG	×	TTC 	Ø.	AAT 	Œ	Щ.
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TTC	ഗ	CTA	>+	TTA	H H	GGA	ГI	GGA	យ	AGC	Ø	<u>E</u>
CTC	S	TAC	€·	TTA 	>1	ACTG	3	TTT	L	TGC	Ø	က
CAT(1-4	TCT	H	TTT	(tr	AGTAA -+	Z	ATT 	Įτί	ACA	Ξ	FIG.
AGA(+	Ω	ATTTCTTACCTACCATA	ſĿι	7GG +	ტ	CAG +	ഗ	TCC.	Ωı	CAGACACAT	€÷	<u>II.</u>
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AGT	>	AGC 	æ		ĸ	GAA 	×	CAA	Z	CAT	Σ	
AGC.	Ø	AGA -+-	ш	- + -	æ	TGG -+-	Q	TCC ++	Д	TGAG	လ	
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AGTGTTCCAGTTCAGCCTGAGCAGCTTGCAAGTGCTGGTTTTTATTATGTGGGTCGCAAT	S V P V Q P E Q L A S A G F Y Y V G R N -	GATGATGTCAAATGCTTTGGTTGTGATGGTGGCTTGAGGTGTTGGGAATCTGGAGATGAT	D D V K C F G C D G G L R C W E S G D D	CCATGGGTAGAACATGCCAAGTGGTTTCCAAGGTGTGAGATTCTTGATACGAATGAAAGGC	PWVEHAKWFPRCEFLIRMKG	CAAGAGTTTGTTGATGAGATTCAAGGTAGATATCCTCATCTTCTTGAACAGCTGTTGTCA 1261+++++++	Q E F V D E I Q G R Y P H L L E Q L L S	ACTTCAGATACCACTGGAGAAAAATGCTGACCCACCAATTATTCATTTGGACCTGGA	TSDTTGEENADPPIIHFGPG	GAAAGTTCTTCAGAAGATGCTGTCATGATGAATACACCTGTGGTTAAATCTGCCTTGGAA 1381++++-1	ESSEDAVMMNTPVVKSALE	FIG. 3 (PAGE 4 OF 7)
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ATG 1441	999	TTT	AAT	PAG?	AGAC	CTG	3GT(SAAV	ACA.	AAAC	AGT"	rcti.	AAG:	TAAA	ATC	CCTGZ	acaa 	ATGGGCTTTAATAGAGACCTGGTGAAACAAACAGTTCTAAGTAAAATCCTGACAACTGGA	1500
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_ 4 _	¥	TA	GAGAACTATAAA	AAC.	AGT	TAA	IGA'	TAT	TGT	GTC. +	AGC	ACT'	FCT' -+-	CACTTCTTAAT	GCT	GCTGAAG	SATG.	GAGAACTATAAAACAGTTAATGATATTGTGTCAGCACTTCTTAATGCTGAAGATGAAAAA	1560
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Q :	7	AGA	AGAGAAGAGGAG	GAA	GGA	AAA	ACA	AGC	TGA	AGA +	AAT) - -	ATC -+-	AGA'	GAT	TTG'	rcaı	AAGGAAAAACAAGCTGAAGAAATGGCATCAGATGATTTGTCATTAATT	1620
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	AX!	GAA	CGGAAGAACAGA	AAT	999	TCTC	CTT	TTCA	ACA	ACAATT	GAC	CATG	TGT	GCT	rccı	ATC -+-	CTG	ATGGCTCTCTTTCAACAATTGACATGTGTGCTTCCTATCCTGGATAAT	1680
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	TTT	AAA	CTTTTAAAGGCC	CAA	TGT	AAT	TA	TAAA	ACA	GGA	ACA	TGA	TAT	TAT	TTAAA	CAA	AAA	CTTTTAAAGGCCAATGTAATTAATAACAGGAACATGATATTATTAAACAAAAACACAG	1740
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	ACCTT	LT.T.	TACA	AGC	GAC	AG	SAC.	GA	rrg.	ATAC	CAT	TIC	3661	TTAA	AGG/	AAAT	GCT	ATACCTTTACAAGCGAGAGAACTGATTGATACCATTTGGGTTAAAGGAAATGCTGCGGCC	1800
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FIG. 3 (PAGE 5 OF 7)

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1	FIG. 3 (PAGE 7 OF 7)	
2580	TTTTTCTCTTATTTCTCCCCCTAGTTTGTGAGAACATCTCAATAAAGTGCTTTAAAAAG	2521
2520	CATCAGAGTTATGGTGCCGAATTGTCTTTGGTGCTTTTCACTTGTGTTTTAAAATAAGGA 1+++	2461
ı		
2460	AAAGCTTTGAAXACTAAATTATAGTGTAGAAAAGAACTGGAAACCAGGAACTCTGGAGTT	2401
1		
2400	AGTAGCGTCXCTGCTTGTTATGCATCATTTCAGGAGTTACTGGATTTGTTGTTCTTTCAG	2341
2340	+	2281
1		
2280	TTTGGTACTAATAATCTTGTTTCTGAAAAGATGGTATCATATATTTAATCTTAATCTGTT 1	2221
2220	ATCTAAAGTAAAAGGGAATTATGAGTTTTTCAATTAGTAACATTCATGTTCTAGTCTGC 	2161

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SEQ ID NO:9	GACACTCTGCTGGGCGGCGGCCGCCCTCCTCCGGGACCTCCCCTCGGGAACCGTCGCCC	9
rd		ſ
	GCGGCGCTTAGTTAGGACTGGAGTGCTTGGCGCGAAAAGGTGGACAAGTCCTATTTTCCA	120
ત્ય		1
1	GAGAAGATGACTTTTAACAGTTTTTGAAGGAACTAGAACTTTTGTACTTGCAGACACCAAAT	180
SEQ ID NO:10 a	M T F N S F E G T R T F V L A D T N	1
1	AAGGATGAAGAATTTGTAGAAGAGTTTAATAGATTAAAAAA	240
rd	K D E E F N R L K T F A N F P S	
2	AGTAGTCCTGTTTCAGCATCAACATTGGCGCGAGCTGGGTTTCTTTATACCGGTGAAGGA	300
ro	SSPVSASTLARAGFLYTGEG	1
£	GACACCGTGCAATGTTTCAGTTGTCATGCGGCAATAGATAG	360
ro	ഗ_))
	FIG. 4 (PAGE 1 OF 6)	

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	GCTGTTGGAAGACACAGGAGAATATCCCCCAAATTGCAGATTTATCAATGGTTTTTATTTT +++++	I Iza	GCTGCACAGTCTACAAATCCTGGTATCCAAAATGGCCAGTACAAATCTGAA	T]	AACTGTGTGGGAAATAGAAATCCTTTTGCCCCTGACAGGCCACCTGAGACTCATGCTGAT	П	TATCTCTTGAGAACTGGACAGGTTGTAGATATTTCAGACACCATATACCCGAGGAACCCT	ı Or	GCCATGTGTAGTGAAGAAGCCAGATTGAAGTCATTTCAGAACTGGCCGGACTATGCTCAT	ı	AGAGAGTTAGCTAGTGCTGGCCTCTACTACAGGGGGCTGATGATCAAGTG ++	۸
	TTAC	≻	4TC' 	S	IGC'	æ	GAA	Z	IGC	Ä	TCA	C
	rtt:	[14	CAA	×	rcar	Ħ	GAG	DC,	ACTAC	×	TGA	Ω
	TGGTTT +	G	3TA(+-	>-	AGACTC	۲	ACCCG	ው	GGA(+-	Ω	TGA-	Ω
	CAA	z	CCAAAATGGCCAGTACAAA	O	TGA(ம்	ATA	>	200	വ	200	Æ
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_	CAGATTTAT +	(II.	AAA'	Z	GGCCAC	ሲ	ACAC	Ð	GAAC	Z	.c.a.c -+-	Ę
	CAG	£	CCA	ø	CAG	Ωť	AGA		TCA	O	CTA	>
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	000	ф	TCC	Д	TTGC	æ	TAGA	Ω	GAAG	×	CTGG	G
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	CAGGAGAAT +	œ	ACAGTCTACAAA	ഗ	GAAAT	Z	GACAGGT +	ø	AGC	æ	AGCTA	Ø
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	ACA:	H	TGC	Ø	SAA.	Z	AGAAC	H	TGA	ា	AGA	ω
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	GCTGTTGG	>	GAAAATGGT	Z	ACTG	O	ATCT	r k	CAT	Σ	TTAACCCCC	۲
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S - 780 S - 780 FCGA 840 N - 900 N - 960 V - 7020 K - 780 K - 780 K - 780	
CCTGTGATCGTGCCTGGT P C D R A W S GGCCGGAACGTTAATGTTC TCAACAACGTTAATGTTC TCAACAACGTTAATGTTC G R N V N V R G R N V N V R G R N V N V R GGAACATATACTCAC GGAACATGATATACTCAC GGAACATGATAAAGTG G T W I Y S GGTGAAGGCGATAAAAGTG AAGTGAAGACCCCTGGGAC	FIG. 4 (PAGE 3 OF 6)

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1140	1	1200	ı	1260	ı	1320	1	1380	ı	1440	1
CTACCCAGGGTGCAAATACCTATTGGATGAGAAGGGGCAAGAATATATA	Н	AATAATATTCATTTAACCCATCCACTTGAGGAATCTTTGGGAAGAACTGCTGAAAAACA	E→	CCACCGCTAACTAAAAATCGATGATACCATCTTCCAGAATCCTATGGTGCAAGAAGCT	Æ	ATACGAATGGGATTTAGCTTCAAGGACCTTAAGAAAACAATGGAAGAAAAATCCAAACA	E	TCCGGGAGCAGCTATCATTATCACTTGAGGTCCTGATTGCAGATCTTGTGAGTGCTCAGAAA	×	AGGATGAGTCAAGTCAAACTTCATTGCAGAAAGACATTAGTACTGAAGAG	កា
TAT	> +	AA.	×	AAGA/	ចា	CA	ø	ICA 	ø	TGA	ជា
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999	ტ	ACT	E٠	rATC	Σ	AAGA	ធ	TGT	>	CAT	ы
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TTC	C K Y L L	ATC	ഗ	CȚŢ	Ĺτ	GAA	×	GAT	H	ATT	'n
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TAC	>	rga(ធ	IAC(€	CCT	٦	GGT	>	AAC	٤٠
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999	у В	AACCCATCC	Ħ	AAT	н	CTT	 	ATC	ဖ	GTC	တ
7000	Д	AAC(H	AAA	×	TAG	S	TCT	ı	TG	运
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FIG. 4 (PAGE 4 OF 6)

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) ;)	FIG. 4 (PAGE 5 OF 6)
1800	AGCACTGTTTCCGTCTAAACATTCAATTTCTGGATCTTTCGAGTTATCAGCTGTATCATT 1741
1740	TAATCCTGCATTTGCATTCCATTAGCATCCTGCTGTTTCCAAATGGAGACCAATGCTAAC
)	
•	GGCACCACATGTTGTTCTTCTTGCTCTAATTGAATGTGTAATGGGAGCGAACTTTAAG
ı	KCPMCYTVITFNQKIFMS*
1620	AAATGTCCCATGTGCTACACCGTCATTACGTTCAACCAAAAATTTTTATGTCTTAGTGG
1	IVFFPCGHLATCKQCAEAVD
1560	ATCGTTTTTTTCCTTGTGGACATCTGGCCACTTGTAAACAGTGTGCAGAAGCAGTTGAC
1	Q L R R L Q E E K L S K I C M D R N I A
1500	CAGCTAAGGCGCCTACAAGAGGAGGAGCTTTCCAAAATCTGTATGGATAGAAATATTGCT

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210	CTGGGAGGATAAAGATTGTTTTAGATGCTCACTTCTGTGTTTTTAGGATTCTGCCCATTTA	2041
204(GAATCTGCCCAATGACTTTAATTGGCTTATTGTAAACACGGAAAGAACTGCCCCACGCTG	1981
ı		
1980	TCATGCCTTTTGCATAAGCTTAACAAATGGAGTGTTCTGTATAAGCATGAGAGATGTGATG	1921
1		
1920	GTATATTGGTAGTACACTGACTTGATTTCTATATGTAAGTGAATTCATCACCTGCATGTT ++++++	1861
ı		
1860	TAGCCAGTGTTTTACTCGATTGAAACCTTAGACAGAGAAGCATTTTATAGCTTTTTCACAT	1801

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FIG. 4 (PAGE 6 OF 6)

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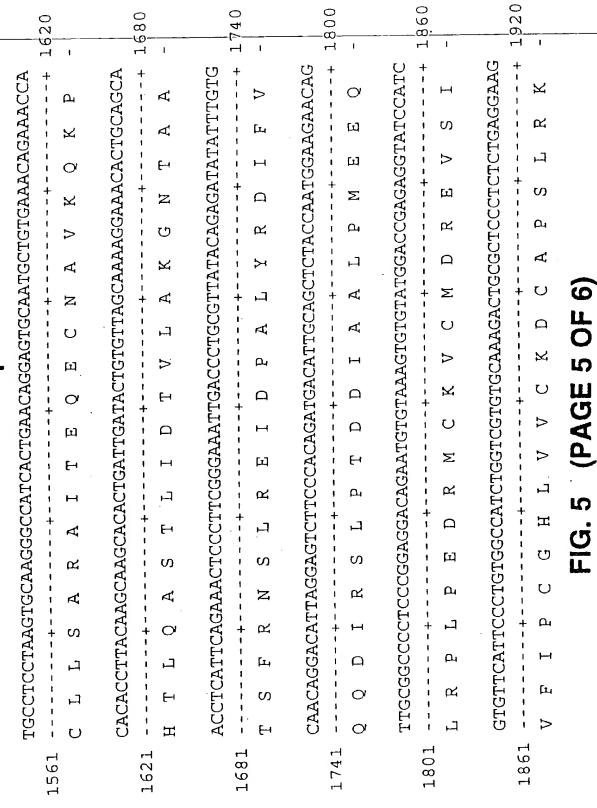
0 0	150	1 1		2 4 0) !	300)) !	360	<u>.</u>	420		
GAATTCCGGGAGACCTACACCCCCGGAGATCAGAGGTCATTGCTGGCGTTCAGAGCCTAG		ATCCCCAGAGAAGACTIGTCCCTTCCCCTCCTGTCATCTCACCATGAACATGGTTCAA	O D W N W	GACAGCGCCTTTCTAGCCAAGCTGATGAAGAGTGCTGACACCTTTGAGTTGAAGTATGAC	D S A F L A K L M K S A D T F E L K Y D	TCCTGTGAGCTGTACCGATTGTCCACGTATTCAGCTTTTCCCAGGGGAGTTCCTGTG	R L S T Y S A F P R G V P V	TCAGAAAGGAGTCTGGCTCGTGCTTTTTACTACACTGGTGCCAATGACAAGGTCAAG	ERSLARAGFYYTGANDKVK	TGCTTCTGCTGTGGCCTGATGCTAGACAACTGGAAACAAGGGGACAGTCCCATGGAGAAG	C F C C G L M L D N W K Q G D S P M E K	FIG. 5 (PAGE 1 OF 6)
SEQ ID NO:39	61	121	SEQ ID NO:40	a	101		T # 77	С	1 5 7	ر ر	100	

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781 -	TTTGCG F A	55	∄GC C	CGAT -+ D	B	GAA.	ACT + L	GAG	CAA 	CTGG + W	GGA + + E	ACG	TAA K	AAGGAT + K D	TGA' D	TGC' A	TAT(+	GTC.	AGA	TTTGCGTGCGATGGGAAACTGAGCAACTGGGAACGTAAGGATGATGCTATGTCAGAGCAC+++++++	840
Ü	AGA	99	CAI	TT(ζĊ	CAG	CTG	TCC	GTT	CTT	AAA	AGA	CTT	555,	TCA	GTC	TGC	TTC	GAG	CAGAGGCATTTCCCCAGCTGTCCGTTCTTAAAAGACTTGGGTCAGTCTGCTTCGAGATAC	. (
841 - O	0 R		H H	- + <u>Eu</u>	 - -	ြက	† v	+ D	<u> </u>		+	i D	<u>.</u>	+ + •	L K D L G Q	S		+ + A	l ex	+ 1 1 > 1	006
	CTG	J.T.C.	TCJ	JAA(CCI	GAG	CAT	GCA	GAC	ACA	VCGC	'AGC	SCG	TAT	TAG	AAC	ATT	CIC	TAA	CTGG	
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) Lyo	CCTIC	CT.	AG	rgc.	ACT	AGT	TCAT	TTC)CC7	\GG2	AACT	TGC	'AAG	TGC	3993	CTT	TTA	TTA	TAC	CCTTCTAGTGCACTAGTTCCCAGGAACTTGCAAGTGCGGGCTTTTATTATACAGGA	000
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	CACAG	\GT	'GA'	IGA	TGI	CAP	GTG.	TTT	[ATC	3CTC	TGZ.	\TGG	TGC	3GC1	GAG	GTG	CTG	GGA	ATC	CACAGTGATGATGTCAAGTGTTTATGCTGTGGTGGGCTGAGGTGCTGGGAATCTGGA	
- T 7 O T .	S H	1	iΩ	<u>+</u>	; >		י ליט !	· 🟳	1			1 1 1	ניט	 - -	 pc 	֡ ֖֖֖֓֞֝֓֓֓֓֓֓֓֓֓֓֓֓֞֝֓֓֓֓֡֓֓֡֓֡֓֞֝֓֡֓֡֓֡֓֡֓֡֓֡֓	+ :	. [ш] I	S	+ ! ! !	0 0 1 1
	GATGAC	3AC	Ω̈́	CTG	GGI	GG7	AAC!	ATG(CCAJ	AGT(3GT.	LTC	ZAA(3GTC	3TG1	\GT?	\CT1	rgc	rcac	CCCCTGGGTGGAACATGCCAAGTGGTTTCCAAGGTGTGAGTACTTGCTCAGAATC	5
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	AAAGG	ემე	CA	AGA	ATI	ſŦĞ.	TCA(AGCCI	AAG	TTC	TCAAGC	CTG(GCT/	ATCC	CTC2	4TC	racr'	rTG2	AGC7	CCAAGAATTTGTCAGCCAAGTTCAAGCTGGCTATCCTCATCTACTTGAGCAGCTA	1000
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) dies	FIG	5		(P)	(PAGE	Ш	3 0	P	(9					

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	AGACTCCCCAGAAGATGAGAATGCAGACGCAGCAATCGTGCATTTTGGC	1260
1201	D A A I V H F G)
•	IGTCGTCATGAGCACGCCTGTGGTTAAAGCAGCC	000
1261	PGESSEDVVMMSTPVVKAAL) V
((GGGCTTCAGTAGGAGCCTGGTGAGACAGAC	ر م د 0
1321	O II))]
	GGTGAGAACTACAGGACCGTCAGTGACCTCGTTATAGGCTTACTCGATGC	7
1381	G E N Y R T V S D L V I G L L D A E D E	t ^t
•	ATGAGAGGAGCAGATGGAGCAGGCGGCCGAGGAGGAG	ר ה כ
1441	M R E E Q M E Q A A E E E E S D D L A L))
, (ATCCGGAAGAACAAAATG	7. 5.0
T 0 C T	I R K N K M V L F Q H L T C V T P M L))
	FIG. 5 (PAGE 4 OF 6)	



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	TATCAAGCCTTCTA FIG. 5 (PAGE 6 OF 6)	2461
246		2401
	AGAAACGAAAGGAAATTCTTTCCTGTCCAATGTATACTCTTCAGACTAATGACCTCTTCC	
240	+	2341
	GGCTAGAATCCATGAACCAAGCTGCAAAGATCTCACGCTAAATAAGGCGGAAAGATTTGG	
234	+	2281
	TGTTCTTGTTCCTGAAAAGCTGGTTTATCATCTGATCAGCATATACTGCGCAACGGGCAG	
228	+	2221
	TACTACCTGCATCTAAAGTATTCATATTCATATATTCAGATGTCATGAGAGAGGGTTT	
222	+ 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	2161
	TICCTIAAAAGIGCIAITIGIICCCAACICAGAAAAIIGIIIICIGIAAACAIAIIIACA	
216	+	2101
	GAAAAACTITTGICTGAAGICAAGAATGAATGAATTACȚTATATAATAATTTAATTGGT	
210	+	2041
	TCGGAACTTGAGGCCAGCCTGGATAGCACGAGACACCCCAAAACACACAAATATAAACAT	
204(+	1981
	CTAATGGTCCATGGCTGCAACTTCAGCCAGGAGGAAGTTCACTGTCACTCCCAGTTCCAT	
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	TGTCCCATCTGTAGAGGGACCATCAAGGGCACAGTGCGCACATTTCTCTCTC	
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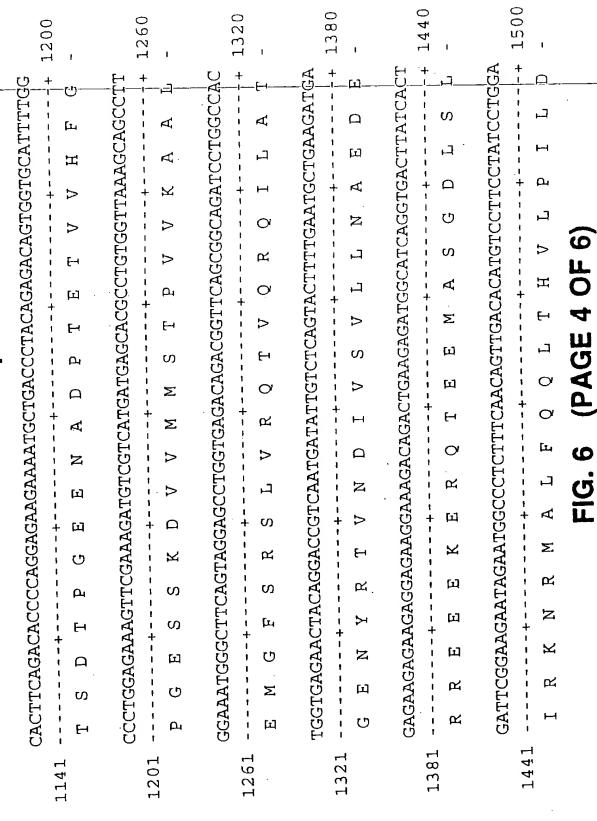
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60	180	240	300	360	420
CA -+ - -+	+ + E + E	TT + S	LTA + Y	3AA + + K	ACA O +
	СС + В - В	TTTTCGTGTGAACTCTACGAATGTCTACATATTC	TCTGGCTCGTGCTTTTATTA ++	A. +	CACAGACAGTTCTATCCCAGCTGCAGCTTTGTACA I R Q F Y P S C S F V Q (PAGE 1 OF 6)
	,	GAGCGAAGAAAAATGAAGTTTGAC' 181++	AGCTTTTCCCAGGGGAGTTCCTGTCTCAGAGAGGAGAGAGA	TACAGGTGTGAATGACAAAGTCAAG 301++	ACAAGGGACAGTCCTGTTGAAAAGG361++++
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AGT(GCA.	AAAC N	3AAG K	ACAP	GTG	
3GCC	ACAA	CAAAAA K N	TATC	BATT.	rrcc Frcc	
CTTGAGG + L E A	CTTZ +	CTTT + · ·	AAAGAAT + K N	3GAG -+	TTCA:	
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TAA 1501 N	AC 1561	AC 1621 -	T. 1681 -	G 1741 -	1801	

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GAAGTGCCCCATC K C P I GAAGAATGGTCTG TGATTTCAGCTTT CTACAGGACTGTC CTACAGGACTGTC TCCTGGAACCAGGA TCCTGGAACCAGGA TCCTGGAACCAGGA TCCTGGAACCAGGA TCCAGTCTGGGA TCCAGTCTGGGA TCCAGTCTGGGA TCCAGTCTGGGA TCCAGTCTGGGA TCCAGTCTGGGA TCCAGTCTGGGA TCCAGTCTTGGGA TCCAGTCTGGGA TCCAGTCTGTGT	ATGAGT + 1920 * -	() + Fd	2040 TGTTGAG 				240	
	IGCAGGGGACAATCAAGGGGACTGTGCGCACATTTCTC +++	AAAGTATTGTTGGACATCAGAAGCTGTCAGAACAAAAAT ++	GAAGGGTAGCAT	CTACAGGACTGTGTTCCAGAGCAGGAGTTGGGATGCTTGCT	CTTCTTGGGATT	TCCAGTCTGGGAATAAGGAGGAATCTGCTGCTGGTAAAATTTGCTGGATG	AGATGAAAGTGTTTCGGGTGGGGGCGTGCATCAGTGTAGTGTGTGCAGGGAT	GCCAAACACTGTGTAG FIG. 6

Alignment of BIR (Baculoviral IAP Repeats) Domains

Bacul virus

Cydia pomonella Cp_iap Op_iap

Orgyia pseudotsugata

Human

AP on X chromosome

hiap1, hiap2

two different human IAP genes

m-xiap Mouse

mouse homologue of human xiap gene

Insect

Drosophilia IAP gene, not clearly a homologue of xiap or hiap

note on consensus:

The consensus line represents amino acids or very similar amino acids which are present in 14 of the 19 BIR sequences at each position.

Capitalized residues are those that are in the consensus sequence.

Chveimrwhe gEdpaadEkk waPqCpFV ChreitaWrr gDdpeldHhr waPqCpFV GtwmeaeCdf ChvridrWey CggklanWep CgggltdWkp CniglrsWqk CdgglkdWep CdgglkdWep C------CngviakWek Chasidrwoy Chaavdrwqy Cggk1)mWep GigDqVqCFc CggklkmWep CggklanWep CoggltdWcp CdgglrcWes CdgglrcWes CglaldnWtr CglmldnWkl GpgDrVaCFa GggDktrCFc GygDatkCFy G--D-V-CF-GpgDrVaCFa GegDkvkCFb Grandvkcrc Grabdykerg ki godvrerh GegDKVkCFh GrgDeVrCaf GegDtvrcFs GvaDkvkCFc Gvad kykere GadDqVqCFc GraDevrcaf nr 1DbVkCvw GegDtVqCFs **SLAGAGLYY**Q **GLACAGFFY QLASAGEYY THADADAPEY** -LA-AGFYY-WPvqf.leps rMAssGFYY1 *LLAEAGFLYE* BLAKAGFYYt **eLASAGLYY**t **ELASAGLYY**t dlaraGFYY1 **GLALAGFYY1** qLArAGFYa1 GLALAGFYal **TLABAGEYYY** dLvanGFF.. tMAJCAGFYY1 *tlaragplyt* BLAFAGFYYE aLAMAGEYY1 WPisnicpas PPsgspvsas elyRMsTYst FPagvpvser Wedyabltpr WP.llflaps Wiysv..nke Wiysv..nke WPssvlvnpe WPssvpvqpe WPrg1kqrpe WPremkqrpe WPlnapvsae WPvsf.lspe PPagryvser WPdyabltpr WP.llflapt WPnpn.ilpq FPSSSDVSas daRLrTFtd BURLATFOR ---RL-TF-kaaRLoffYtn ofnRLkTFan SfnRLkTFan sealtksPgn sea Ricks Fqn sear! Trhm haarrkrrfn **eaaRLrTFae** saaRvksFhn SOVRIDIFSK enaRLlTFqt yearivifgt reard frrgt haaRMrTFmy SABREVIFE elyRMsTYst Consensus Op_iap-1 Cp_iap-1 Cp_tap-2 Op_iap-2 n-xdap-1 n-xiap-2 n-xiap-3 hiap1-2 hiap1-3 lap1-1 htap2-1 hiap2-2 hiap2-3 diap-1 klap-1 xiap-2 xtap-3 diap-3 diap-2 SEQ ID NO:19 SEQ ID NO:20 SEQ ID NO:21 NO:2 NO:30 ID NO:23 NO:25 NO:26 NO:27 NO:28 NO:29 NO:22 NO: 24 NO: 15 NO: 16 NO:18 NO:14 NO: 17 H H H ü A A A H SEQ SEQ SEQ SEQ SEQ SEQ SEO SEQ SEO SEQ

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kDnamseHlr SEdpwdqHak

gDsptekEck lyPscrFV

gDsavgrHrk gDspidkEkq

ffPqCprV VEPRCEFI

nDnafeeHkr gDsavgrHrr

Lapacrel

1yPscari

chrawseHrr hfPnCfFV

hfPnCpr1 **CYP**GCkY1

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SEQ ID NO:4	qsix	mtfasfe	gsktermadi.	nkeeEFveEF	DDI POTATED	2221724261
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	xiap	PrelasaGLY	YtGigDqVqC	FcCGGKLkNW	EPCDTAWSER	TRHEPHCIEV
	hiap1	PtOLArAGFY	YiGpgDrVaC	Facggklanw	EPKDnAmSEH	IRHEPROPET
	hlap2	PSELARAGFY	YiGpgDrVaC	Facggklanw	EPKDdAmSEH	remerace 1
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Fig. 8 (page 1 of 3)

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	<u>VnkEOLAFAG</u> VnkEOLAFAG	FYalGeGDKV		dWkpsEDPWe	QHAXWYPqCk
•		FYYVGnaDdV	KCFcCdGGLr	CWesgoDPWv	CHAKWEPTCe
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xiap	PCGHTAfckd	Cyesicar	Chenikana	- FTLS*	
hlap1	PCGHTArckd	Cyb2TixCi;	CRSCING CV	715	
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Fig. 8 (page 3 of 3)

Alignment of RZF (Ring Zinc Finger) Domains

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Cp_iap Op_ap

Orgyia pseudotsugata Cydia pomonella

Human

hiap1, hiap2 xiap

two different human IAP genes

IAP on X chromosome

Mouse

m-xiap

mouse homologue of human xiap gene

Insect

Drosophilia IAP gene, not clearly a homologue of xiap or hiap

note on consensus:

The consensus line represents amino acids or very similar amino acids Capitalized residues are those that are in the consensus sequence which are present in 6 of the 7 RZF sequences at each position.

Eqliriqeer tckvcMdkev svvřiPcGH1 vvcqecApel rkcPic tCKVCMdkev lskicMdrni CKICMdrai EqltrlpEer Eqitriquek EqltriqEek n-xiap biap1 xiap ID NO:33 ID NO:35 ID NO:34 SEQ SEO

TECPIC dkCPmC dkcPmc ancemic

w CkdCApsl atckgcheav vtCkqCAeav atCnqCApev

SIVFIPCGH1

Consensus Cp_iap Op_iap ID NO:38 ID NO:37

vacgkchagv **EVCFVPCGHV** 1CKICLGack aveaevaDdr

LtcPvc

Vacakcalsv

LVCFVPCGHV

1CKICyveec 1CKVCLdeev

Eenrg1kDar EkepqveDsk

diap

ID NO:36

SEQ SEQ

gvvr1PCGH1 AIVFVPCGH1 AIVF FPCGH1

P.B. Leukocyte Sm. Intestine Colon В A F. Kidney Sk. Muscle F. Brain F. Liver F. Lung Spleen Thymus Prostate Pancreas Placenta Kidney Ovary Testis Heart Brain Lung Liver 6.5 4.5 hiap-1 hiap-2 β-actin

FIG. 10

P.B. Leukocyte Sm. Intestine Colon В A Sk. Muscle Kidney F. Liver F. Kidney F. Lung Spleen Thymus Prostate F. Brain Pancreas Heart Brain Placenta Lung Liver Ovary Testis hiap-2 4.5 β -actin

FIG. 11

P.B. Leukocyte C Sm. Intestine Colon В A F. Liver F. Kidney Sk. Muscle Kidney Pancreas F. Lung F. Brain Spleen Thymus Prostate Brain Placenta Lung Liver Testis Ovary Heart 9.0 xiap β-actin

FIG. 12



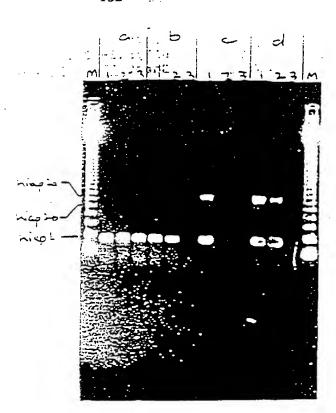


Fig. 13A and 13B

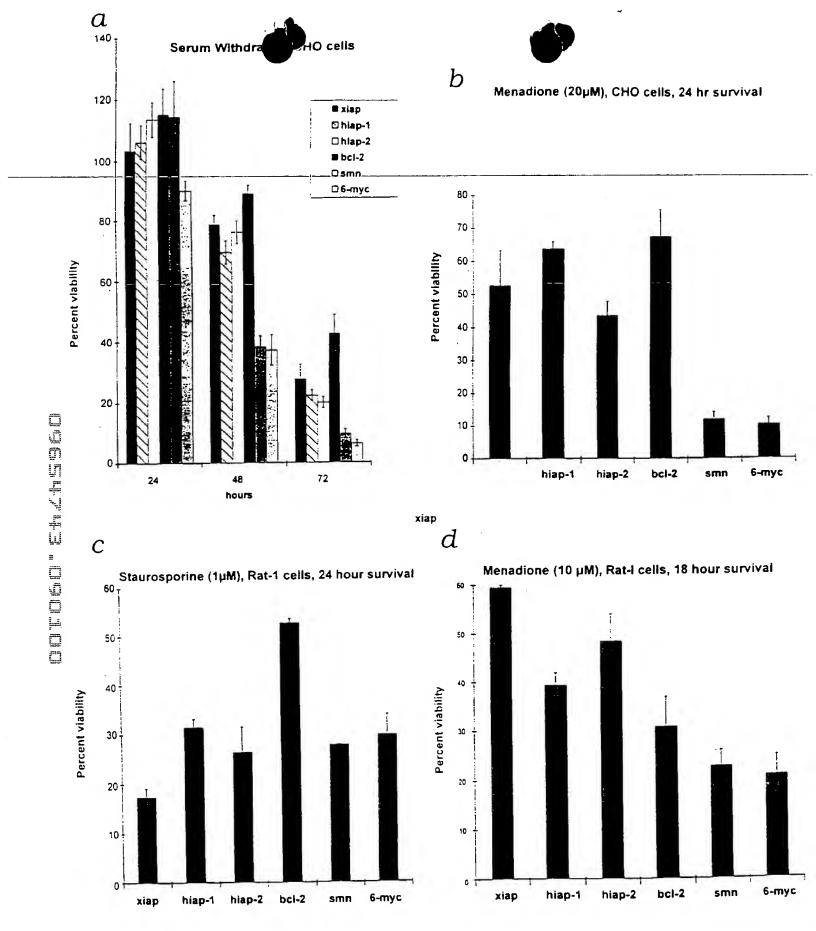


Fig. 14A - D